TURF MANAGEMENT

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INTRODUCTION

The project Turf management is helpful to get to manage the activity of turf. Admin is the main user of the website who will manage every activity. This application can be used by the Football enthusiastic players to book the available turf according to their need.

This application not only helps the players but also the turf owners who want to expand their business through online medium. It maintain the List of Turf and Booking History so it will be easy to access any time 24*7.

This system has replaced the manual process of going to the location to book with an automated online process. Through, this application admin who is one of the users of this application will manage all the activities of Users such as search user, Add Turf, Manage Turf, and View Bookings.

MODULES

- ➢ ADMIN
  - ▪ Login
  - ▪ Register and manage Turf locations
  - ▪ Register and Manage Turf managers
  - ▪ View feedback
  - ▪ View complaints and post reply
- ➢ MANAGER
  - ▪ Login
  - ▪ Register time slot with fees
  - ▪ View booking and manage
  - ▪ View payment

MODULES

➢ USER
- ▪ Register
- ▪ Login
- ▪ View turf locations
- ▪ Book turf
- ▪ View booking status
- ▪ Add payment
- ▪ Post feedback
- ▪ Post complaint and view reply

Methodology

Turf playground are used to play various sports like football, rugby, tennis, cricket, etc. People enjoy playing on the turf, it has vibrant environment and very safe to play. Many school teams and clubs prefer turf playground for practice and training purpose. Sometime it becomes difficult to book turf playground because of timing issue or the slot getting booked previously. This sports ground booking website is proposed for booking the turf in an easy and efficient way. It has three modules namely, Admin, Manager and User. Admin can login and can add turf locations, assign manager by creating login credentials for manager, add price details for the particular turf, manages turf and view the details of sports venues booking for all locations. Managers assigned by the Admin are different for different Turf playground locations. User can login to the system by registering details, he/she can login using credentials, he/she can check the rates, view the request for turf booking for the respective location,and manager can accept booking, generate bill and can view the booking history. Users can check the availability of the turf, select timings, fill personal details, can pay by providing bank details or card details and he/she can also see view previous turf booking history.

Tables

Booking

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
☐	1	**b_id** 🔑	int(11)			No	*None*		AUTO_INCREMENT
☐	2	**u_id**	int(11)			No	*None*		
☐	3	**m_id**	int(11)			No	*None*		
☐	4	**t_id**	varchar(11)	utf8mb4_general_ci		No	*None*		
☐	5	**turflocation**	varchar(100)	utf8mb4_general_ci		No	*None*		
☐	6	**name**	varchar(50)	utf8mb4_general_ci		No	*None*		
☐	7	**phone**	varchar(20)	utf8mb4_general_ci		No	*None*		
☐	8	**email**	varchar(30)	utf8mb4_general_ci		No	*None*		
☐	9	**date**	date			No	*None*		
☐	10	**time**	varchar(50)	utf8mb4_general_ci		No	*None*		
☐	11	**status**	varchar(50)	utf8mb4_general_ci		No	*None*		

Complaint

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	c_id 🔑	int(11)			No	None		AUTO_INCREMENT
2	u_id	int(11)			No	None		
3	name	varchar(30)	utf8mb4_general_ci		No	None		
4	phone	int(15)			No	None		
5	email	varchar(30)	utf8mb4_general_ci		No	None		
6	address	varchar(100)	utf8mb4_general_ci		No	None		
7	complaint	varchar(120)	utf8mb4_general_ci		No	None		
8	date	date			No	None		
9	reply	varchar(50)	utf8mb4_general_ci		No	None		

Feedback

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	f_id 🔑	int(11)			No	None		AUTO_INCREMENT
2	u_id	int(11)			No	None		
3	feedback	varchar(150)	utf8mb4_general_ci		No	None		
4	date	date			No	None		
5	reply	varchar(150)	utf8mb4_general_ci		No	None		

Manager Registration

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	m_id 🔑	int(11)			No	*None*		AUTO_INCREMENT
2	t_id	int(11)			No	*None*		
3	name	varchar(20)	utf8mb4_general_ci		No	*None*		
4	address	varchar(100)	utf8mb4_general_ci		No	*None*		
5	turf location	varchar(30)	utf8mb4_general_ci		No	*None*		
6	phone	varchar(11)	utf8mb4_general_ci		No	*None*		
7	district	varchar(30)	utf8mb4_general_ci		No	*None*		
8	gender	varchar(11)	utf8mb4_general_ci		No	*None*		
9	dob	varchar(20)	utf8mb4_general_ci		No	*None*		
10	email	varchar(30)	utf8mb4_general_ci		No	*None*		
11	password	varchar(30)	utf8mb4_general_ci		No	*None*		
12	repeatpassword	varchar(30)	utf8mb4_general_ci		No	*None*		

Login

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
☐	1	l_id 🔑	int(11)			No	*None*		AUTO_INCREMENT
☐	2	u_id	int(11)			No	*None*		
☐	3	username	varchar(20)	utf8mb4_general_ci		No	*None*		
☐	4	password	varchar(20)	utf8mb4_general_ci		No	*None*		
☐	5	type	varchar(20)	utf8mb4_general_ci		No	*None*		

Turf Location

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
☐	1	l_id 🔑	int(11)			No	*None*		AUTO_INCREMENT
☐	2	u_id	int(11)			No	*None*		
☐	3	username	varchar(20)	utf8mb4_general_ci		No	*None*		
☐	4	password	varchar(20)	utf8mb4_general_ci		No	*None*		
☐	5	type	varchar(20)	utf8mb4_general_ci		No	*None*		

Payment

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 🔑	int(11)			No	None		AUTO_INCREMENT
2	b_id	int(11)			No	None		
3	u_id	int(11)			No	None		
4	m_id	varchar(11)	utf8mb4_general_ci		No	None		
5	name	varchar(30)	utf8mb4_general_ci		No	None		
6	phone	int(15)			No	None		
7	email	varchar(20)	utf8mb4_general_ci		No	None		
8	amount	varchar(30)	utf8mb4_general_ci		No	None		
9	date	date			No	None		

User

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	u_id 🔑	int(11)			No	None		AUTO_INCREMENT
2	name	varchar(30)	utf8mb4_general_ci		No	None		
3	phone	varchar(11)	utf8mb4_general_ci		No	None		
4	place	varchar(30)	utf8mb4_general_ci		No	None		
5	address	varchar(50)	utf8mb4_general_ci		No	None		
6	email	varchar(20)	utf8mb4_general_ci		No	None		

Data Flow Diagram

Level - 0

Level – 1 : Admin

Request for Login

Admin → **Login** ← Response ← | Login

Information exchange → **Register the turf** → Request → | Location

Information exchange → **View feedback** ← Response ← | Feedback

Information exchange → **View complaints and post reply** ← Response ← | Complaint
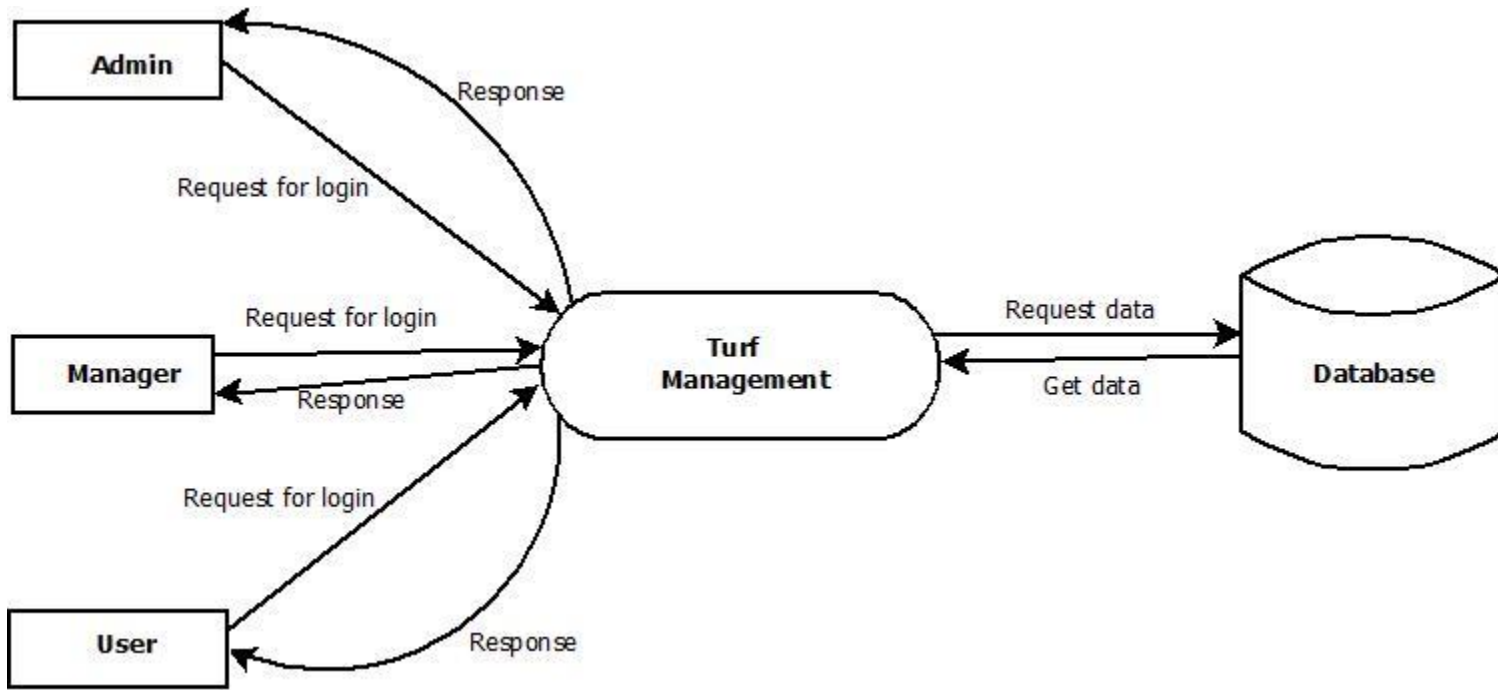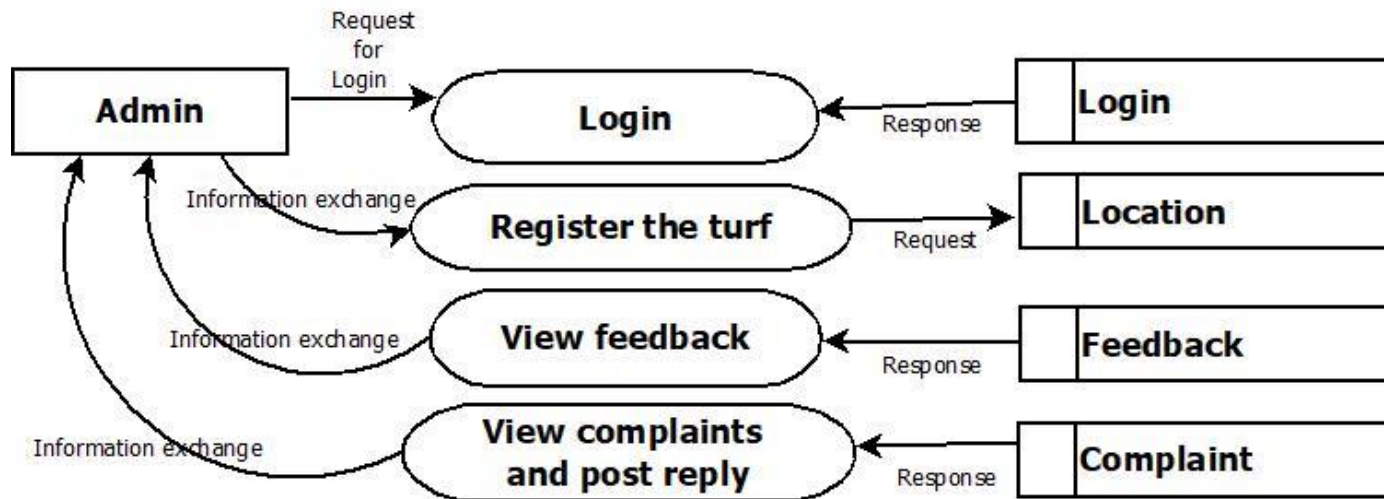
Level – 2 : Manager
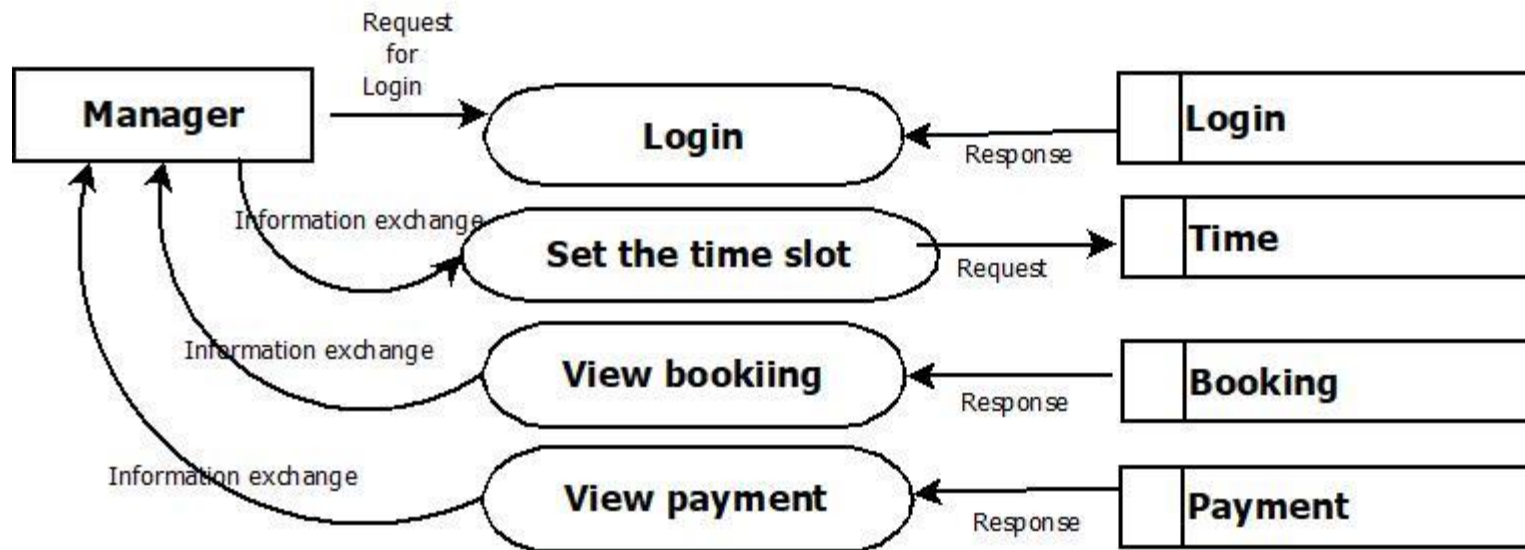
Level – 3 : User
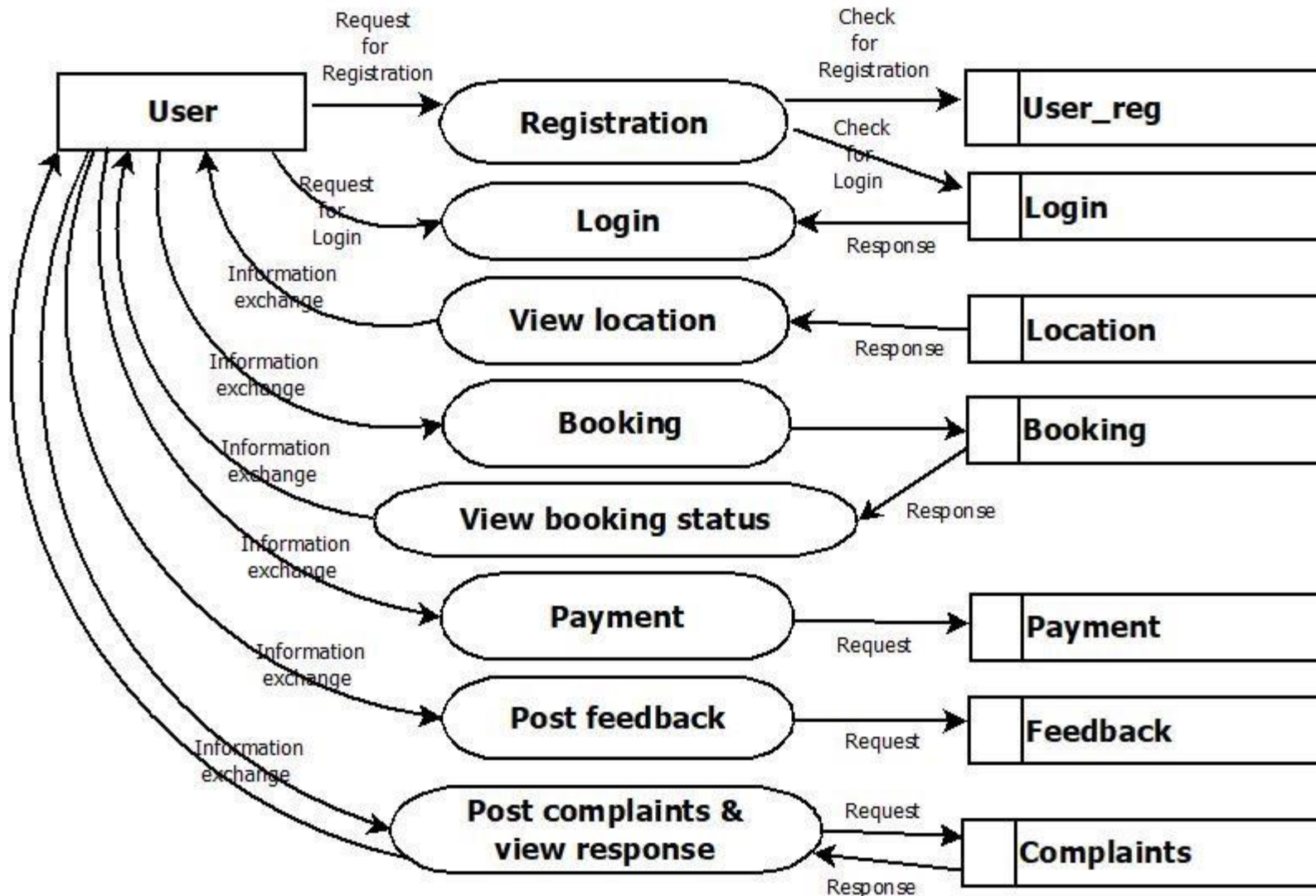
DEVELOPING ENVIRONMENT

- Language: Python
- Front End: Html, CSS, Java script
- Back end: Python-django
- Database : MySQL
- IDE: PyCharm
- OS: Windows/Linux

Future Enhancements

- We can add live updates of of world football.
- We can add other sports activities booking to the project.

PRODUCT BACKLOG

User story ID	Priority <High/Medium/Low>	Size (Hours)	Sprint <#>	Status <Planned/In progress/Completed>	Release Date	Release Goal
1	Medium	3	1	Completed	27-11-2021	Home page of admin
2	High	4		Completed	05-12-2021	Add turf details
3	Medium	3	2	Completed	08-12-2021	Home page of manager
4	High	4		Completed	15-12-2021	Manager set the time slot
5	Medium	2		Completed	22-12-2021	User registration
6	Medium	3		Completed	24-12-2021	Login to the system
7	Medium	2		Completed	01-01-2022	View the turf details
8	Medium	3	3	Completed	05-01-2022	Book the turf
9	Medium	2		Completed	08-02-2022	View booking details
10	High	4		Completed	12-02-2022	Status updates

User story ID	Priority <High/Medium/Low>	Size (Hours)	Sprint <#>	Status <Planned/In progress/Completed>	Release Date	Release Goal
11	Medium	3	3	Completed	17-01-2022	View booking details
12	High	4		Completed	19-01-2022	Make payments
13	Medium	2		Completed	26-01-2022	View the payment details
14	Medium	3		Completed	31-01-2022	Post feedback
15	Medium	3		Completed	02-02-2022	View feedback
16	Medium	3	4	Completed	12-02-2022	Post complaints and view response
17	Medium	2		Completed	16-02-2022	View complaints and send response

USER STORY

User story ID	As a \<type of user>	I want to \<perform some task>	So that I can \<achieve some goal>
1	Admin	Access home page and login	Home page of admin access the system
2	Admin	Registering the turf	Admin can register the available turf
3	Manager	Access home page and login	Home page of manager access the turf details
4	Manager	Setting the time slot	Manager can set the time for playing
5	User	Registration	Register to the system and create profile
6	User	Login and access home page	Access the system
7	User	View the turf details	View turf is available or not
8	User	Book the turf	Book the turf
9	Manager	View bookings	View the booking details
10	Manager	Status updates	Send the details to users

User story ID	As a \<type of user\>	I want to \<perform some task\>	So that I can \<achieve some goal\>
11	User	View booking	View booking details
12	User	Make payment	Pay the amount
13	Manager	View payment details	View the payment details
14	User	Post feedback	Post feedback
15	Admin	View feedback	View feedback
16	User	Post complaints	Post complaints and view feedback
17	Admin	View complaints	View complaints and post response

PROJECT PLAN

User Story ID	Task Name	Start Date	End Date	Days	Status
1	Sprint 1	23-11-2021	27-11-2021	10	Completed
2		29-11-2021	05-12-2021		Completed
3	Sprint 2	06-12-2021	08-12-2021	12	Completed
4		13-12-2021	15-12-2021		Completed
5		20-12-2021	22-12-2021		Completed
6		22-12-2021	24-12-2021		Completed
7		27-12-2021	01-01-2022		Completed
8	Sprint 3	03-01-2022	05-01-2022	14	Completed
9		05-01-2022	08-02-2022		Completed
10		10-01-2022	12-02-2022		Completed

User Story ID	Task Name	Start Date	End Date	Days	Status
11	Sprint 3	17-01-2022	17-01-2022	14	Completed
12		19-01-2022	19-01-2022		Completed
13		24-01-2022	26-01-2022		Completed
14		31-01-2022	31-01-2022		Completed
15		02-02-2022	02-02-2022		Completed
16	Sprint 4	07-02-2022	12-02-2022	7	Completed
17		14-02-2022	16-02-2022		Completed

SPRINT BACKLOG ACTUAL

Backlog Item	Status and Completion date	Original Estimate in hours	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Completed <Y/N>
User story #1,2			Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	
UI Designing	27/11/21	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	Y
Database Connectivity	30/11/21	3	0	0	0	0	2	0	0	1	0	0	0	0	0	0	Y
Coding	01/11/21	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0	Y
Testing	05/12/21	3	0	0	1	1	1	0	0	0	0	0	0	0	0	0	Y
User story #3,4,5,6,7																	
UI Designing	08/12/21	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	Y
Database Connectivity	15/12/21	3	0	0	0	1	1	0	1	0	0	0	0	0	0	0	Y
Coding	24/12/21	3	0	0	0	1	0	0	0	1	0	0	0	1	0	0	Y
Testing	01/01/22	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	Y

Backlog Item	Status and Completion date	Original Estimate in hours	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Completed <Y/N>
User story #8,9,10,11,12,13,14,15			Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	
UI Designing	05/01/22	4	1	1	1	0	1	0	0	0	0	0	0	0	0	0	Y
Database Connectivity	17/01/22	4	0	0	0	0	0	1	1	0	0	0	0	0	1	1	Y
Coding	19/01/22	5	1	0	0	1	0	1	0	0	0	1	0	0	0	1	Y
Testing	02/02/22	5	0	0	1	0	0	0	2	2	0	0	0	1	0	0	Y
User story #16,17																	
UI Designing	12/02/22	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	Y
Database Connectivity	13/02/22	3	1	0	0	1	0	0	1	0	0	0	0	0	0	0	Y
Coding	15/02/22	2	0	1	0	1	1	0	0	0	0	0	0	0	0	0	Y
Testing	16/02/22	3	0	0	1	0	0	1	1	0	0	0	0	0	0	0	Y
Total		50	7	4	6	6	8	3	6	4	1	1	0	2	1	2	

SPRINT BACKLOG PLAN

Backlog Item	Status and Completion date	Original Estimate in hours	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
User story #1,2			Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
UI Designing	27/11/21	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Database Connectivity	30/11/21	3	0	0	0	0	2	0	0	1	0	0	0	0	0	0
Testing	01/11/21	2	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Coding	05/12/21	3	0	0	1	1	1	0	0	0	0	0	0	0	0	0
User story #3,4,5,6,7																
UI Designing	08/12/21	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0
Database Connectivity	15/12/21	3	0	0	0	1	1	0	1	0	0	0	0	0	0	0
Coding	24/12/21	3	0	0	0	1	0	0	0	1	0	0	0	1	0	0
Testing	01/01/22	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0

Backlog Item	Status and Completion date	Original Estimate in hours	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14
User story #8,9,10,11,12,13,14,15			Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
UI Designing	05/01/22	4	1	1	1	0	1	0	0	0	0	0	0	0	0	0
Database Connectivity	17/01/22	4	0	0	0	0	0	1	1	0	0	0	0	0	1	1
Coding	19/01/22	5	1	0	0	1	0	1	0	0	0	1	0	0	0	1
Testing	02/02/22	5	0	0	1	0	0	0	2	2	0	0	0	1	0	0
User story #16,17																
UI Designing	12/02/22	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Database Connectivity	13/02/22	3	1	0	0	1	0	0	1	0	0	0	0	0	0	0
Coding	15/02/22	2	0	1	0	1	1	0	0	0	0	0	0	0	0	0
Testing	16/02/22	3	0	0	1	0	0	1	1	0	0	0	0	0	0	0
Total		50	7	4	6	6	8	3	6	4	1	1	0	2	1	2

THANK YOU